Fig. 1

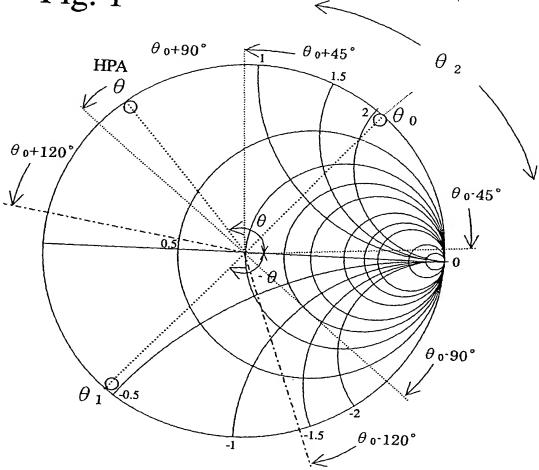
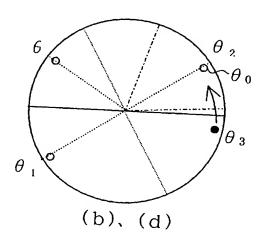
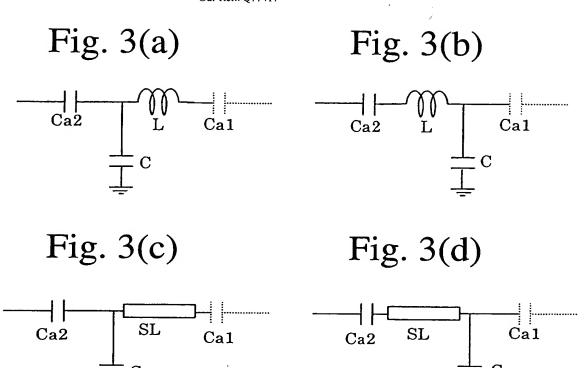


Fig. 2(a)

 θ_{1} θ_{2} θ_{1} θ_{2} θ_{3} θ_{4}

Fig. 2(b)





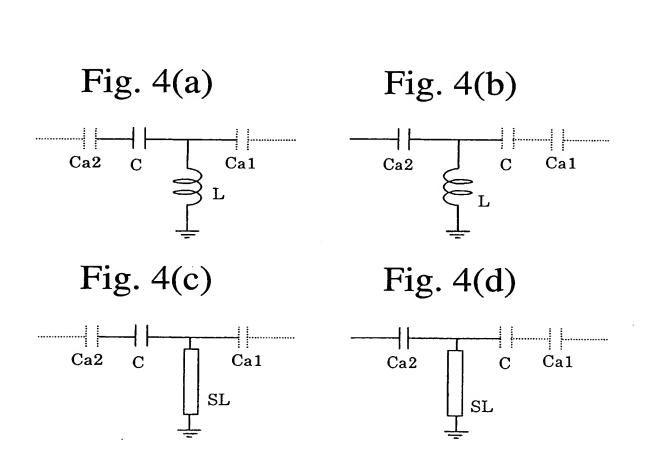
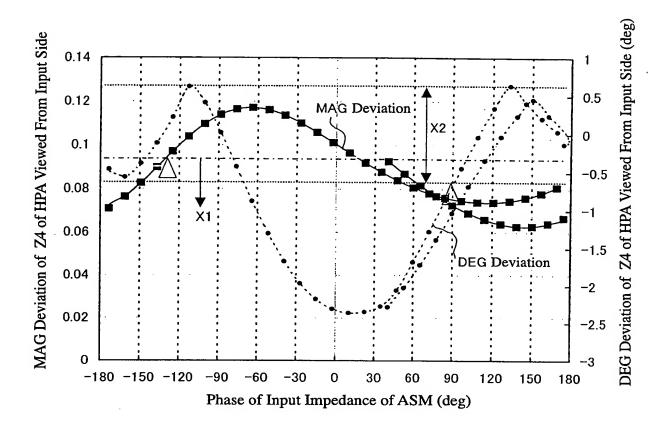


Fig. 5



Title: High-Frequency Device, High-Frequency Module and Communications Device Comprising Them Assignee: Hitachi Metals, Ltd. Appln: Hayashi, Kenji Our Ref.: Q77417

Fig. 6

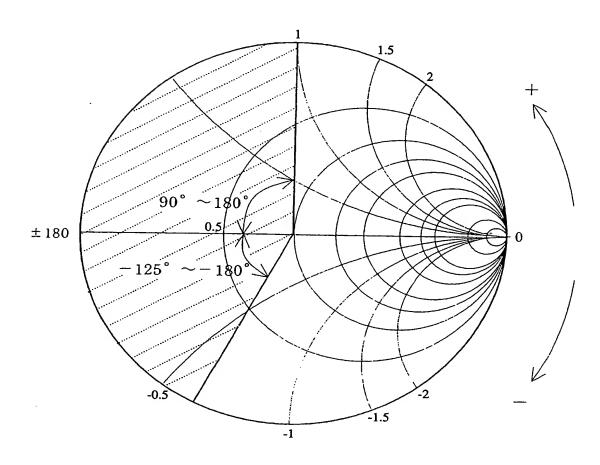


Fig. 7

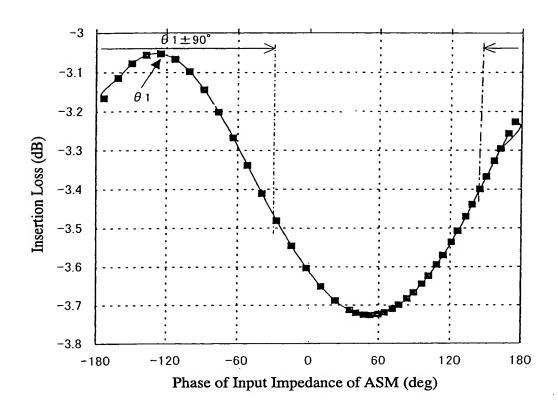
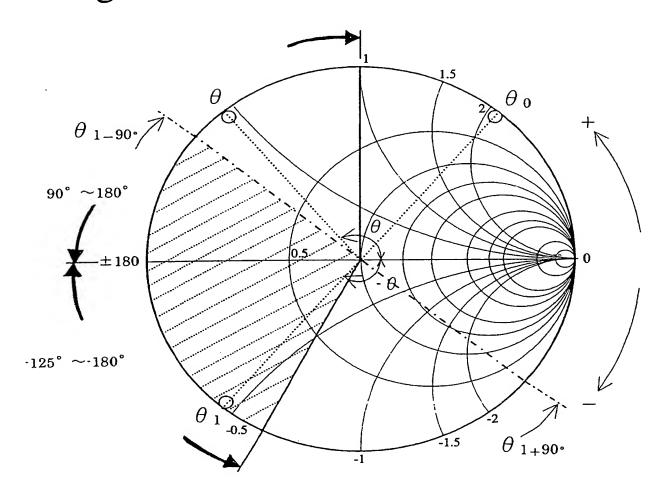
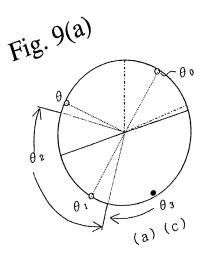
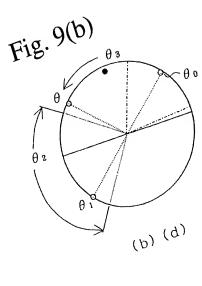


Fig. 8



Title-High-Frequency Device, High-Frequency
Module and Communications Device Comprising
Them
Assignee: Hitachi Metals, Ltd.
Appln: Hayashi, Kenji
Our Ref.: 017417





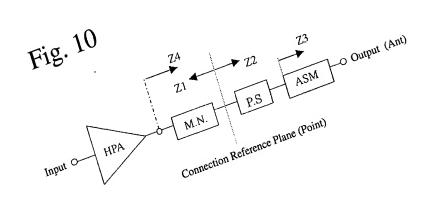


Fig. 11

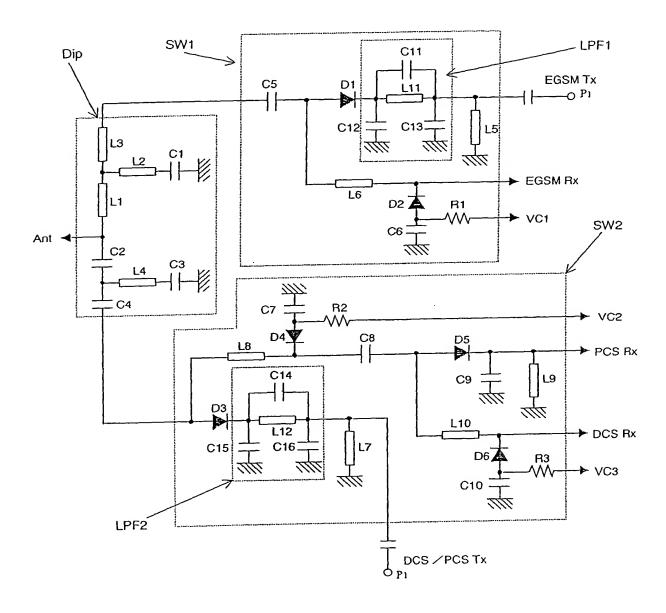


Fig. 12

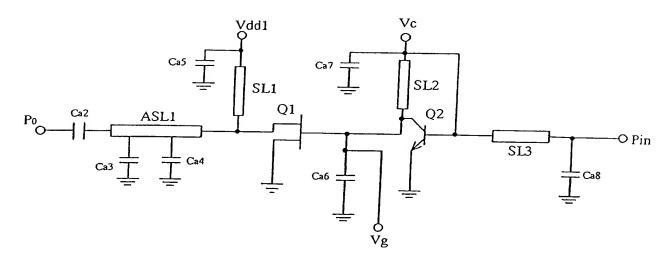
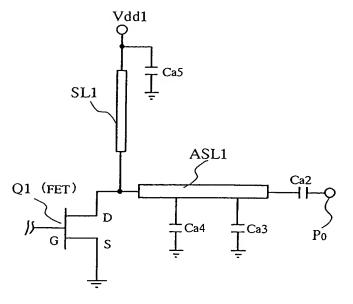
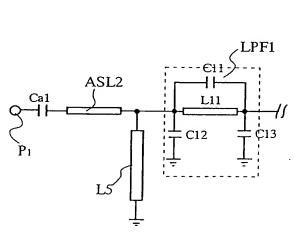


Fig. 13(a)



Circuit Portion of High-Frequency Amplifier Near Output Terminal

Fig. 13(b)



Circuit Portion of Antenna Switch Near Transmission Terminal

Appln: Hayashi, Kenji Our Ref.: Q77417 Targeted Maximum Attenuation : After Adjustment ■ : After Adjustment Targeted Maximum Attenuation Z(2f) of ASM Z(2f) of ASM Z(3f) of ASM Position θ_0 Z(3f) of ASM Position θ_0 ▲ : Present Position Z(2f) of ASM $Z(2f) \stackrel{Z(3f)}{=} Z(f)$ Attenuation X: Minimum Z(3f) of ASM ▲ : Present Position θ_{3} Z of HPA Z(3f) of ASM : After Adjustment ▲ : Present Position × : Maximum Loss (): Minimum Loss Attenuation \times : Minimum Z(2f) of ASM Z(f) of ASM Fig. 14

Assignee: Hitachi Metals, Ltd.

Fig. 15(a)

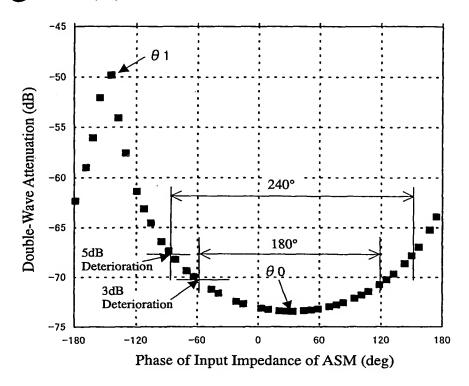
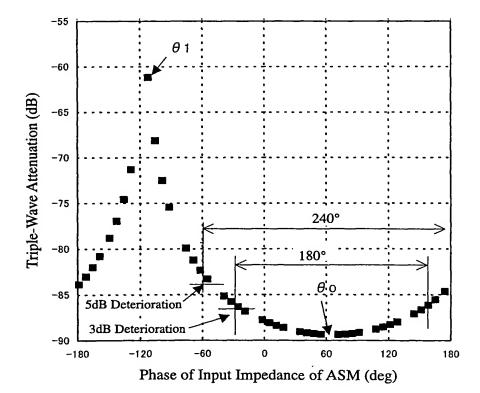


Fig. 15(b)



Title:High-Frequency Device, High-Frequency Module and Communications Device Comprising Them Assignee: Hitachi Metals, Ltd. Appln: Hayashi, Kenji Our Ref.: Q77417

Fig. 16

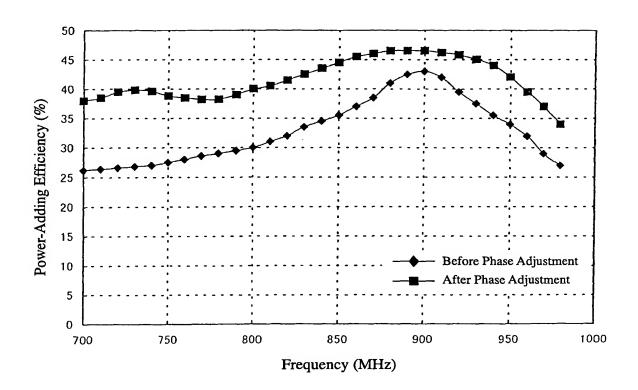


Fig. 17

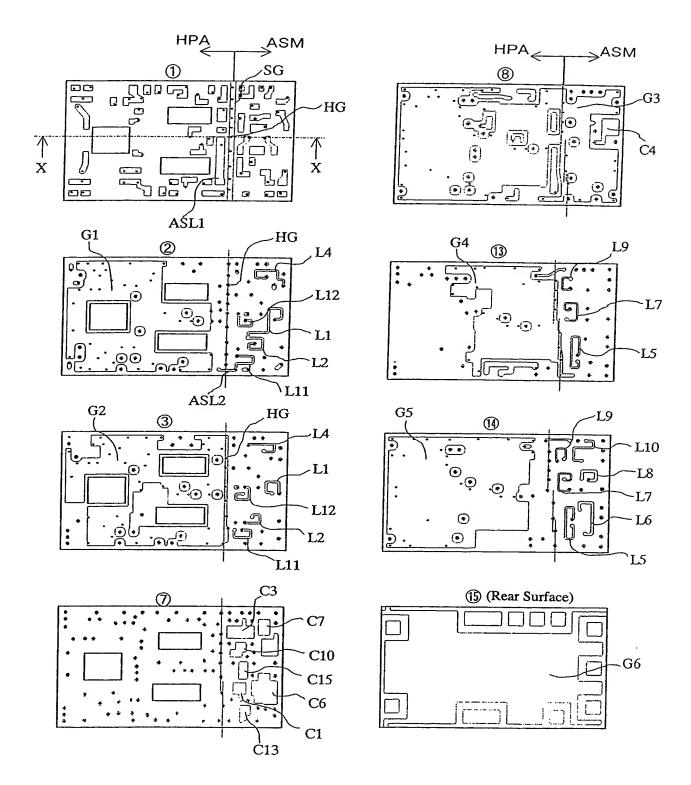


Fig. 18

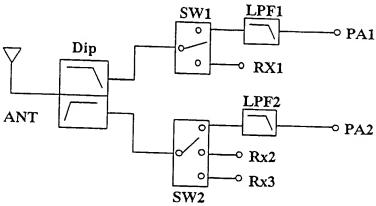


Fig. 19

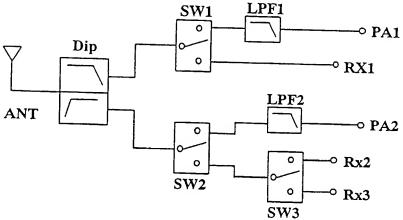


Fig. 20

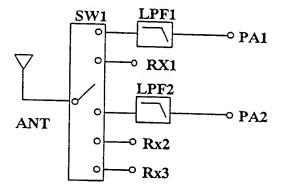


Fig. 21

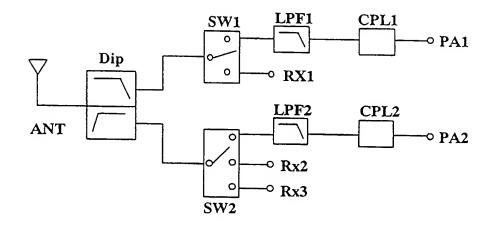
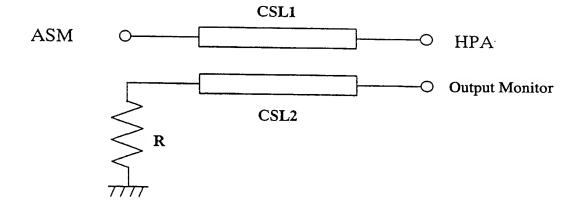


Fig. 22



Title:High-Frequency Device, High-Frequency Module and Communications Device Comprising Them

LNA3 LNA1 AŞM+HPA EGSM Rx HPA1 DCS Rx PCS Rx HPA2 DCS/PCS Tx SAW2 SAW1 SAW3 **EGSM Tx** LPF2 LPF1 0 0 0 0 0 ASM SW1 SW2 AND D

Fig. 23